

1 ABSTRACT OF DISCLOSURE

2 A mechanism provided to program forwarding tables for switches in a subnet of a
3 switched fabric including at least a host system, a target system and switches each having one or
4 more ports interconnected via links for multipathing. Such a mechanism may be installed in a
5 host system to determine all possible links between all ports on the subnet during topology
6 discovery; create an all port connectivity table which records all port-to-port connectivity
7 information; create an all switch shortest paths table which records all the shortest paths between
8 every switch pair on the subnet based the port-to-port connectivity information; and compute
9 forwarding tables for respective switches on the subnet that allow usage of multiple paths
between port pairs based on the port-to-port connectivity information and based on the shortest
paths between every switch pair.